

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re the application of: Donald R. Mapes, et al.

Examiner: Jeffrey Thomas Barton

Serial No. 10/657,755

Group Art Unit: 1753

Filed : September 9, 2003

Docket No.: 14920.0015 C1

For: PHOTOVOLTAIC ARRAY

U.S. Patent and Trademark Office
Mail Stop Amendment
Customer Service Window
Randolph Building
401 Dulany Street
Alexandria, VA 22314

TERMINAL DISCLAIMER UNDER 37 CFR §§3.73(b) AND 1.321(c)

Pursuant to 37 CFR §3.73(b), First Solar US Manufacturing, LLC certifies that it is the assignee of the entire right, title, and interest in the above application by virtue of assignments from the inventors of a priority application of the patent application identified above. The assignments from the inventors of the patent application identified above were recorded at the Patent and Trademark Office at reel/frame number 015472/0751 and 018087/0024. A copy of the recorded assignments are enclosed for reference.

The undersigned has reviewed all the documents in the chain of title of the patent application identified above and, to the best of undersigned's knowledge and belief, title is in First Solar US Manufacturing, LLC.

The undersigned, whose title is supplied below, is empowered to act on behalf of the assignee.

Pursuant to 37 CFR §1.321(c), and to obviate a double patenting rejection, the assignee identified above hereby waives and disclaims the terminal portion of the term of the entire patent to be granted upon the above identified application subsequent to the expiration date of the U.S. Patent 6,617,507 whereby the patent granted on this application and U.S. Patent 6,617,507 will expire on the same day, provided that any patent granted on the above identified application shall be enforceable only for and during such period that it is commonly owned U.S. Patent 6,617,507.

The assignee identified above does not disclaim any terminal part of any patent granted on the above identified application prior to the expiration date of the full statutory term of the U.S. Patent 6,617,507 in the event that it later: expires for failure to pay a maintenance fee, is held unenforceable, is found invalid, is statutorily disclaimed in whole or terminally disclaimed under 37 CFR §1.321(a), has all claims cancelled by a reexamination certificate, or is otherwise terminated prior to expiration of its statutory term, except for the separation of legal title as stated above. Assignee herein does not disclaim or otherwise affect any part of the U.S. Patent 6,617,507.

This disclaimer runs with any patent granted on the above application and is binding upon the grantee, its successors or assigns.

Please charge any additional fees, or make any credits, to Deposit Account No. 19-4293, referencing **Attorney Docket No. 14920.0015 C1**.

I hereby declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under Section 1001 of Title 18 of the United States Code and that such willful false statements may jeopardize the validity of the application or any patent issued thereon.

Respectfully submitted,

Date: 7-5-07



Harold H. Fox
Reg. No. 41,498

Steptoe & Johnson LLP
1330 Connecticut Avenue, NW
Washington, DC 20036-1795
Phone: 202-429-3000
Fax: 202-429-3902



UNITED STATES PATENT AND TRADEMARK OFFICE

UNDER SECRETARY OF COMMERCE FOR INTELLECTUAL PROPERTY AND
DIRECTOR OF THE UNITED STATES PATENT AND TRADEMARK OFFICE

AUGUST 10, 2006

PTAS

HAROLD H. FOX
1330 CONNECTICUT AVENUE, NW
WASHINGTON, DC 20036

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NOTICE OF RECORDATION OF ASSIGNMENT DOCUMENT

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PLEASE REVIEW ALL INFORMATION CONTAINED ON THIS NOTICE. THE INFORMATION CONTAINED ON THIS RECORDATION NOTICE REFLECTS THE DATA PRESENT IN THE PATENT AND TRADEMARK ASSIGNMENT SYSTEM. IF YOU SHOULD FIND ANY ERRORS OR HAVE QUESTIONS CONCERNING THIS NOTICE, YOU MAY CONTACT THE EMPLOYEE WHOSE NAME APPEARS ON THIS NOTICE AT 571-272-3350. PLEASE SEND REQUEST FOR CORRECTION TO: U.S. PATENT AND TRADEMARK OFFICE, MAIL STOP: ASSIGNMENT SERVICES BRANCH, P.O. BOX 1450, ALEXANDRIA, VA 22313.

RECORDATION DATE: 08/10/2006

REEL/FRAME: 018087/0024
NUMBER OF PAGES: 5BRIEF: CHANGE OF NAME (SEE DOCUMENT FOR DETAILS).
DOCKET NUMBER: 14920.0001ASSIGNOR:
FIRST SOLAR, LLC

DOC DATE: 06/27/2006

ASSIGNEE:
FIRST SOLAR US MANUFACTURING, LLC
28101 CEDAR PARK BOULEVARD
PERRYSBURG, OHIO 43551SERIAL NUMBER: 10915695
PATENT NUMBER:
TITLE: APPARATUS AND METHOD FOR DEPOSITING A MATERIAL ON A SUBSTRATEFILING DATE: 08/11/2004
ISSUE DATE:

018087/0024 PAGE 2

SERIAL NUMBER: 60705544 FILING DATE: 08/05/2005
PATENT NUMBER: ISSUE DATE:
TITLE: MANUFACTURE OF PHOTOVOLTAIC DEVICES

SERIAL NUMBER: 10915736 FILING DATE: 08/11/2004
PATENT NUMBER: ISSUE DATE:
TITLE: METHOD AND APPARATUS FOR LASER SCRIBING GLASS SHEET SUBSTRATE COATINGS

SERIAL NUMBER: 10704139 FILING DATE: 11/10/2003
PATENT NUMBER: ISSUE DATE:
TITLE: NON-PLANAR PHOTOCELL

SERIAL NUMBER: 10657755 FILING DATE: 09/09/2003
PATENT NUMBER: ISSUE DATE:
TITLE: PHOTOVOLTAIC ARRAY

SERIAL NUMBER: 10851652 FILING DATE: 05/24/2004
PATENT NUMBER: ISSUE DATE:
TITLE: PHOTOVOLTAIC CELL INCLUDING CAPPING LAYER

SERIAL NUMBER: 60675078 FILING DATE: 04/26/2005
PATENT NUMBER: ISSUE DATE:
TITLE: SYSTEM AND METHOD FOR DEPOSITING A MATERIAL ON A SUBSTRATE

SERIAL NUMBER: 60674677 FILING DATE: 04/26/2005
PATENT NUMBER: ISSUE DATE:
TITLE: SYSTEM AND METHOD FOR DEPOSITING A MATERIAL ON A SUBSTRATE

SERIAL NUMBER: 60674676 FILING DATE: 04/26/2005
PATENT NUMBER: ISSUE DATE:
TITLE: SYSTEM AND METHOD FOR DEPOSITING A MATERIAL ON A SUBSTRATE

SERIAL NUMBER: 60674683 FILING DATE: 04/26/2005
PATENT NUMBER: ISSUE DATE:
TITLE: SYSTEM AND METHOD FOR DEPOSITING A MATERIAL ON A SUBSTRATE

SERIAL NUMBER: 60676293 FILING DATE: 05/02/2005
PATENT NUMBER: ISSUE DATE:
TITLE: SYSTEM AND METHOD FOR TESTING A PHOTOVOLTAIC MODULE

SERIAL NUMBER: 11284028 FILING DATE: 11/22/2005
PATENT NUMBER: ISSUE DATE:
TITLE: SYSTEM AND METHOD FOR REMOVING FILM FROM PLANAR SUBSTRATE PERIPHERIES

SERIAL NUMBER: 11380073 FILING DATE: 04/25/2006
PATENT NUMBER: ISSUE DATE:
TITLE: SYSTEM AND METHOD FOR DEPOSITING A MATERIAL ON A SUBSTRATE

SERIAL NUMBER: 11380079 FILING DATE: 04/25/2006

TITLE: SYSTEM AND METHOD FOR DEPOSITING A MATERIAL ON A SUBSTRATE

018087/0024 PAGE 3

SERIAL NUMBER: 11380088 FILING DATE: 04/25/2006
PATENT NUMBER: ISSUE DATE:
TITLE: SYSTEM AND METHOD FOR DEPOSITING A MATERIAL ON A SUBSTRATE

SERIAL NUMBER: 11380095 FILING DATE: 04/25/2006
PATENT NUMBER: ISSUE DATE:
TITLE: SYSTEM AND METHOD FOR DEPOSITING A MATERIAL ON A SUBSTRATE

SERIAL NUMBER: 11411878 FILING DATE: 04/27/2006
PATENT NUMBER: ISSUE DATE:
TITLE: SYSTEM AND METHOD FOR TESTING A PHOTOVOLTAIC MODULE

SERIAL NUMBER: 60789580 FILING DATE: 04/06/2006
PATENT NUMBER: ISSUE DATE:
TITLE: SYSTEM AND METHOD FOR TRANSPORT

SERIAL NUMBER: 09732233 FILING DATE: 12/07/2000
PATENT NUMBER: 6416814 ISSUE DATE: 07/09/2002
TITLE: VOLATILE ORGANOMETALLIC COMPLEXES OF LOWERED REACTIVITY SUITABLE
FOR USE IN CHEMICAL VAPOR DEPOSITION OF METAL OXIDE FILMS

SERIAL NUMBER: 10150561 FILING DATE: 05/21/2002
PATENT NUMBER: 6627765 ISSUE DATE: 09/30/2003
TITLE: VOLATILE ORGANOMETALLIC COMPLEXES SUITABLE FOR USE IN CHEMICAL
VAPOR DEPOSITIONS ON METAL OXIDE FILMS

SERIAL NUMBER: 09573100 FILING DATE: 05/17/2000
PATENT NUMBER: 6391165 ISSUE DATE: 05/21/2002
TITLE: APPARATUS FOR RECLAIMING CADMIUM AND TELLURIUM FROM CADMIUM
TELLURIUM SOLAR CELLS

SERIAL NUMBER: 09928203 FILING DATE: 08/10/2001
PATENT NUMBER: 6559411 ISSUE DATE: 05/06/2003
TITLE: METHOD AND APPARATUS FOR LASER SCRIBING GLASS SHEET SUBSTRATE
COATINGS

SERIAL NUMBER: 10425704 FILING DATE: 04/30/2003
PATENT NUMBER: 6919530 ISSUE DATE: 07/19/2005
TITLE: METHOD AND APPARATUS FOR LASER SCRIBING GLASS SHEET SUBSTRATE
COATINGS

SERIAL NUMBER: 09931470 FILING DATE: 08/16/2001
PATENT NUMBER: 6719848 ISSUE DATE: 04/13/2004
TITLE: CHEMICAL VAPOR DEPOSITION SYSTEM

SERIAL NUMBER: 09993875 FILING DATE: 11/16/2001
PATENT NUMBER: 6617507 ISSUE DATE: 09/09/2003

SERIAL NUMBER: 07114683
PATENT NUMBER: 4872925
TITLE: PHOTOVOLTAIC CELL FABRICATION METHOD AND PANEL MADE THEREBY

FILING DATE: 10/29/1987
ISSUE DATE: 10/10/1989

018087/0024 PAGE 4

SERIAL NUMBER: 09026140
PATENT NUMBER: 5945163
TITLE: APPARATUS AND METHOD FOR DEPOSITING A MATERIAL ON A SUBSTRATE

SERIAL NUMBER: 09250654
PATENT NUMBER: 6348159
TITLE: METHOD AND APPARATUS FOR ETCHING COATED SUBSTRATES

SERIAL NUMBER: 09457062
PATENT NUMBER: 6300593
TITLE: APPARATUS AND METHOD FOR LASER SCRIBING A COATED SUBSTRATE

SERIAL NUMBER: 09076191
PATENT NUMBER: 6129779
TITLE: RECLAIMING METALLIC MATERIAL FROM AN ARTICLE COMPRISING A NON-METALLIC FRIABLE SUBSTRATE

SERIAL NUMBER: 07114694
PATENT NUMBER: 4865999
TITLE: SOLAR CELL FABRICATION METHOD

SERIAL NUMBER: 07881683
PATENT NUMBER: 5248349
TITLE: PROCESS FOR MAKING PHOTOVOLTAIC DEVICES AND RESULTANT PRODUCT

SERIAL NUMBER: 08300406
PATENT NUMBER: 5470397
TITLE: PROCESS FOR MAKING PHOTOVOLTAIC DEVICES AND RESULTANT PRODUCT

SERIAL NUMBER: 09026139
PATENT NUMBER: 6037241
TITLE: APPARATUS AND METHOD FOR DEPOSITING A SEMICONDUCTOR MATERIAL

SERIAL NUMBER: 09116287
PATENT NUMBER: 6063995
TITLE: RECYCLING SILICON PHOTOVOLTAIC MODULES

SERIAL NUMBER: 09256495
PATENT NUMBER: 6058740
TITLE: GLASS SUBSTRATE DEPOSITION SYSTEM HAVING LATERAL ALIGNMENT MECHANISM

SERIAL NUMBER: 08783935
PATENT NUMBER: 5772715

FILING DATE: 02/23/1999
ISSUE DATE: 05/09/2000

FILING DATE: 01/17/1997
ISSUE DATE: 06/30/1998

SERIAL NUMBER: 07307836 FILING DATE: 02/07/1989
PATENT NUMBER: S016562 ISSUE DATE: 05/21/1991
TITLE: MODULAR CONTINUOUS VAPOR DEPOSITION SYSTEM

SERIAL NUMBER: 08066318 FILING DATE: 05/24/1993
PATENT NUMBER: 5372646 ISSUE DATE: 12/13/1994
TITLE: APPARATUS FOR MAKING PHOTOVOLTAIC DEVICES

018087/0024 PAGE 5

SERIAL NUMBER: 07649310 FILING DATE: 01/30/1991
PATENT NUMBER: S125608 ISSUE DATE: 06/30/1992
TITLE: PHOTOVOLTAIC PANEL SUPPORT ASSEMBLY

SERIAL NUMBER: 07052991 FILING DATE: 05/22/1987
PATENT NUMBER: 4808462 ISSUE DATE: 02/28/1989
TITLE: SOLAR CELL SUBSTRATE

SERIAL NUMBER: 07095842 FILING DATE: 09/14/1987
PATENT NUMBER: 4769058 ISSUE DATE: 09/06/1988
TITLE: METHOD OF MAKING A SMOOTH SILICA GLASS BODY

SERIAL NUMBER: 07018617 FILING DATE: 02/25/1987
PATENT NUMBER: 4763602 ISSUE DATE: 08/16/1988
TITLE: THIN FILM DEPOSITION APPARATUS INCLUDING A VACUUM TRANSPORT
MECHANISM

SERIAL NUMBER: 08515231 FILING DATE: 08/15/1995
PATENT NUMBER: 5536333 ISSUE DATE: 07/16/1996
TITLE: PROCESS FOR MAKING PHOTOVOLTAIC DEVICES AND RESULTANT DEVICES

SERIAL NUMBER: 10434459 FILING DATE: 05/09/2003
PATENT NUMBER: 6959517 ISSUE DATE: 11/01/2005
TITLE: PHOTOVOLTAIC PANEL MOUNTING BRACKET

PAULA MCCRAY, EXAMINER
ASSIGNMENT SERVICES BRANCH
PUBLIC RECORDS DIVISION



UNITED STATES PATENT AND TRADEMARK OFFICE

UNDER SECRETARY OF COMMERCE FOR INTELLECTUAL PROPERTY AND
DIRECTOR OF THE UNITED STATES PATENT AND TRADEMARK OFFICE

DECEMBER 20, 2004

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STEPTOE & JOHNSON LLP
HAROLD H. FOX
1330 CONNECTICUT AVENUE, NW
WASHINGTON, DC 20036

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RECORDATION DATE: 06/15/2004

REEL/FRAME: 015472/0751

NUMBER OF PAGES: 5

BRIEF: ASSIGNMENT OF ASSIGNOR'S INTEREST (SEE DOCUMENT FOR DETAILS).

ASSIGNOR:
MAPES, DONALD R.

DOC DATE: 03/12/2004

ASSIGNOR:
AITCHISON, DAVID J.

DOC DATE: 11/03/2003

ASSIGNOR:
CROSSER, LARRY G.

DOC DATE: 10/10/2003

ASSIGNEE:
FIRST SOLAR, LLC
29101 CEDAR PARK
PERRYSBURG, OHIO 43551

SERIAL NUMBER: 10657755
PATENT NUMBER:
TITLE: PHOTOVOLTAIC ARRAY

FILING DATE: 09/09/2003
ISSUE DATE:

TONYA LEE, EXAMINER
ASSIGNMENT DIVISION
OFFICE OF PUBLIC RECORDS

06-22-2004

Form PTO-1595

(Rev. 03/01)

OMB No. 0651-0027 (exp. 5/31/2002)

RE



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U.S. DEPARTMENT OF COMMERCE

U.S. Patent and Trademark Office

Tab settings

102773781

To the Honorable Commissioner of Patents and Trademarks: Please record the attached original documents or copy thereof.

1. Name of conveying party(ies):

Donald R. MAPES
 David J. AITCHISON
 Larry G. CROSSER

JUN 15 2004

Additional name(s) of conveying party(ies) attached? Yes No

3. Nature of conveyance:

Assignment Merger
 Security Agreement Change of Name
 Other

Execution Date: 03/12/04; 11/03/03; 10/10/03

4. Application number(s) or patent number(s):

If this document is being filed together with a new application, the execution date of the application is: _____

A. Patent Application No.(s) 10/657,255

B. Patent No.(s) _____

Additional numbers attached? Yes No

5. Name and address of party to whom correspondence concerning document should be mailed:

Name: STEPTOE & JOHNSON LLPInternal Address: Attn: Docket Administrator - Box USPTOStreet Address: 1330 Connecticut Avenue, NWCity: Washington State: DC Zip: 200366. Total number of applications and patents involved: 57. Total Fee (37 CFR 3.41) \$40.00 Enclosed Authorized to be charged to deposit account

8. Deposit account number:

19-4293 (missing fees or deficiencies only)

9. Signature.

Harold H. Fox, Reg. No. 41,498

Signature

6-14-04

Date

Name of Person Signing _____ Total number of pages including cover sheet, attachments, and documents: 5

Mail documents to be recorded with required cover sheet information to:

Commissioner of Patents & Trademarks, Box Assignments

Washington, D.C. 20231

2004-06-22 10:00:53 102773785

40.00 CP

ASSIGNMENT

For valuable consideration, we, DONALD R. MAPES of Glendale, AZ, DAVID J. AITCHISON of Gilbert, AZ, and LARRY G. CROSSER of Perrysburg, OH, hereby assign to First Solar, LLC, a corporation of Delaware and its successors and assigns (collectively hereinafter called "the Assignee"), the entire right, title and interest throughout the world in the inventions and improvements which are subject of an application for United States Patent signed by us, entitled PHOTOVOLTAIC ARRAY, filed September 9, 2003, and assigned U.S. Serial Number 10/657,755, and we authorize and request the attorneys appointed in said application to hereafter complete this assignment by inserting above the filing date and serial number of said application when known; this assignment including said application, any and all United States and foreign patents, utility models, and design registrations granted for any of said inventions or improvements, and the right to claim priority based on the filing date of said application under the International Convention for the Protection of Industrial Property, the Patent Cooperation Treaty, the European Patent Convention, and all other treaties of like purposes; and we authorize the Assignee to apply in all countries in our name or in its own name for patents, utility models, design registrations and like rights of exclusion and for inventors' certificates for said inventions and improvements; and we agree for ourselves and our respective heirs, legal representatives and assigns, without further compensation to perform such lawful acts and to sign such further applications, assignments, Preliminary Statements and other lawful documents as the Assignee may reasonably request to effectuate fully this assignment.

IN WITNESS WHEREOF, I hereto set my hand and seal at 2:25 p.m.
this 12 day of March, 20 04
DONALD R. MAPES L.S.
DONALD R. MAPES

State of Arizona :

: ss.

County of Yavapai :

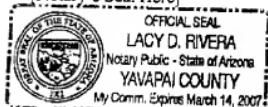
Before me this 12th day of March, 20 04, personally
appeared DONALD R. MAPES known to me to be the person whose name is subscribed to the
foregoing Assignment and acknowledged that he executed the same as his free act and deed for
the purposes therein contained.

Lacy D. Rivera
Notary Public

My Commission Expires:

March 14 2007

[Notary's Seal Here]



IN WITNESS WHEREOF, I hereto set my hand and seal at Scottsdale,
this 3rd day of November, 2003

DAVID J. AITCHISON

L.S.

State of Arizona :

: ss.

County of Mesa :

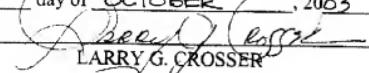
Before me this 3rd day of November, 2003, personally
appeared DAVID J. AITCHISON known to me to be the person whose name is subscribed to
the foregoing Assignment and acknowledged that he executed the same as his free act and deed
for the purposes therein contained.



[Notary's Seal Here]

Julie A. Conyers
Notary Public
My Commission Expires: June 26, 2006.

IN WITNESS WHEREOF, I hereto set my hand and seal at PERRYSBURG, OHIO,
this 10 day of OCTOBER, 2003


LARRY G. CROSSER

L.S.

State of Ohio :

: ss.

County of Lucas :

Before me this 10th day of October, 2003, personally
appeared LARRY G. CROSSER known to me to be the person whose name is subscribed to the
foregoing Assignment and acknowledged that he executed the same as his free act and deed for
the purposes therein contained.

Wednesday m. Szollosi
Notary Public

My Commission Expires:

[Notary's Seal Here]

WEDNESDAY M. SZOLLOSI
ATTORNEY AT LAW
NOTARY PUBLIC, STATE OF OHIO
MY COMMISSION HAS NO EXPIRATION
SECTION 147.03 R.C.

40177821.doc